

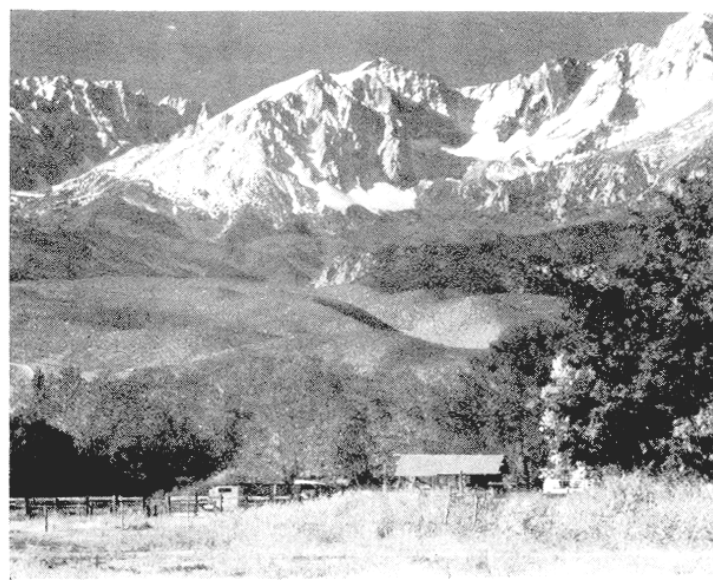
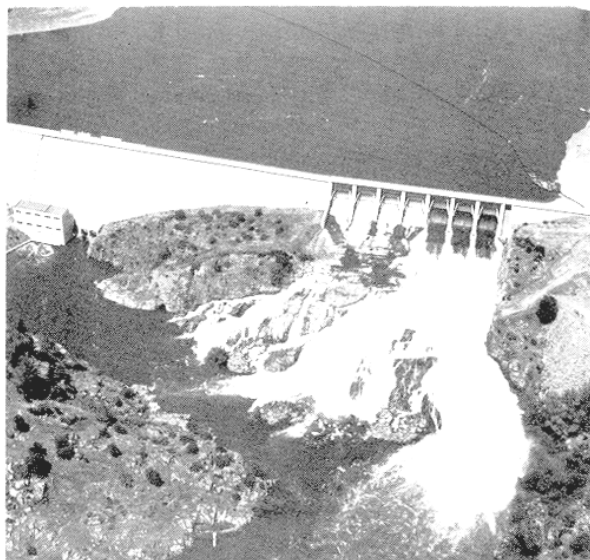
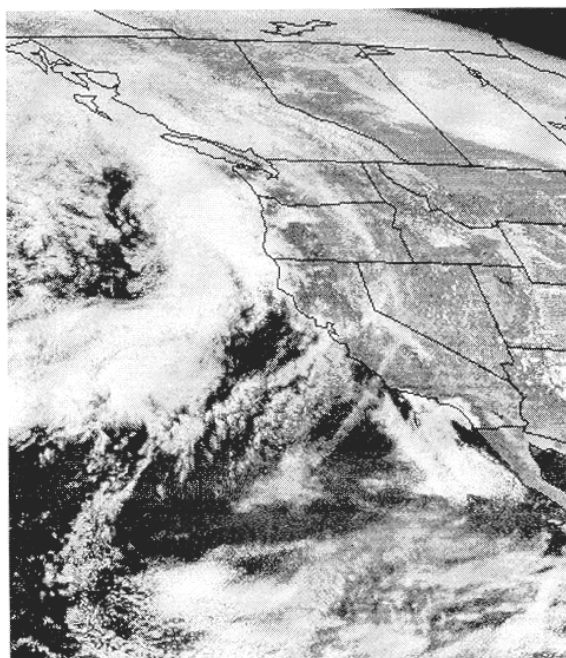


California Water Supply Outlook

April 2003

Compiled by the
Division of Flood Management,
Flood Operations and Hydrology Branches

Climate and Weather . . . Snowpack . . . Streamflow . . . Reservoir Storage



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Prepared by the staff of the:

Hydrology and Flood Operations Office

The data in this publication are preliminary and may be subject to revision.

Water Supply Outlook used to be published on a semimonthly basis by the Hydrology and Flood Operation Office of the Division of Flood Management, and provided a statewide summary of current hydrologic conditions.

Due to the increasing cost of publishing and mailing, as well as a desire by the public for more timely and additional information, Water Supply Outlook will now only be available through the Internet. This product contains a series of links to html, text, and pdf format reports, which will allow more frequent updates of data and information. This is a "work-in-progress" and will be improved as funds and time allow.

For more details, contact:

Water Supply Outlook
Division of Flood Management
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P.O. Box 219000
Sacramento, CA 95821-9000

Also of interest, the California Cooperative Snow Surveys, a unit of the Division of Flood Management, publishes Bulletin 120, ***Water Conditions in California:***

<http://cdec.water.ca.gov/snow/>

This bulletin is published monthly by the Department of Water Resources from February 1 to May 1, with a final Fall Report at the end of the water year. Bulletin 120 provides forecasts of unimpaired runoff for California rivers, along with precipitation, snowpack, and reservoir storage data. To receive Bulletin 120, contact the Department of Water Resources Mailing List Coordinator:

Department of Water Resources
The Resources Agency
State of California
P.O. Box 942836
Sacramento, CA 94236-0001

916-653-0995

California Water Conditions Synopsis for March 2003

This has been an unusual year. Total precipitation since the beginning of the water year has been about average, but the snowpack on April 1 was only 65 percent of normal with only light amounts in the lower portion of the snow zone. Instead of the normal 10 percent gain in snowpack during March, there was a net loss of about 5 percent. Water supplies in the northern end of the State are near average, except in the upper Klamath basin, but supplies from the southern Sierra will be tight and require more use of stored water.

Precipitation during March was about 90 percent of average statewide, slightly above average on the North Coast and in the South Coast region, but considerably under average in the Central Coast and central Sierra. The cumulative statewide precipitation is 100 percent of average overall compared to 85 percent one year ago.

Snowpack water content decreased 5 percent overall during March, primarily from some early melting near the end of the month. The statewide snowpack was 65 percent of average on April 1 compared to 95 percent last year. The highest accumulations are in the North Coast & Lahontan regions and at high elevations.

Runoff during March was 75 percent of average statewide, dropping cumulative runoff for the water year to 95 percent of average, compared to 80 percent at this time last year. The North Coast was above average while most of the remainder of California was below normal. There was no high water during the month. The chance that water year runoff will exceed average has dropped to under 10% in the Sacramento region, and is very slight in the San Joaquin and Tulare regions.

Forecasts of April through July runoff have been lowered another 10 percent due to the reduced snowpack. The statewide forecasts total 65 percent of average assuming normal weather for the remainder of the season. The spring runoff forecasts are highest in the far northern basins and in higher elevation basins. Water year forecasts have also been reduced about 5 percent to 80 percent of average. As of April 1, the forecasted Sacramento River Index (SRI) was 84 percent of average, the Sacramento Valley Index (40-30-30 SVI) year type was 'below normal', and the San Joaquin Valley Index (60-20-20 SJI) year type was 'dry'.

Reservoir storage increased at greater than an average pace during March. Overall storage was 100 percent of average on April 1, slightly more than last year. Amounts in the north tend to be above average whereas many reservoirs in the south, as well as the Sierra east side, are considerably below normal.

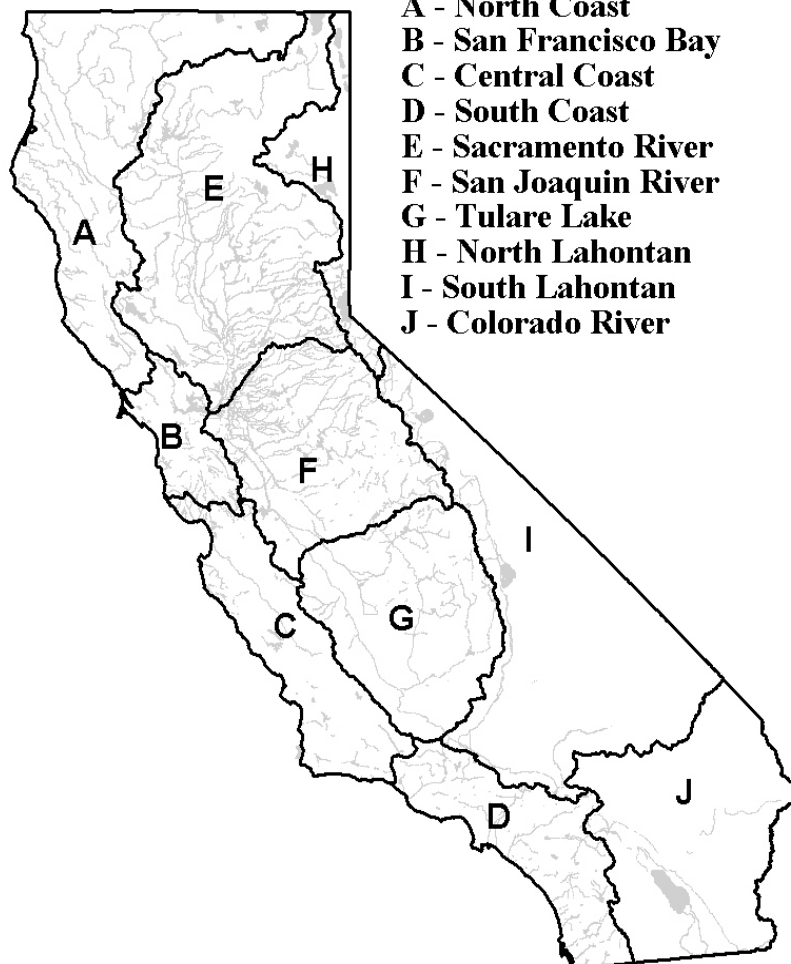
Summary of Water Conditions in California*

April 1, 2003

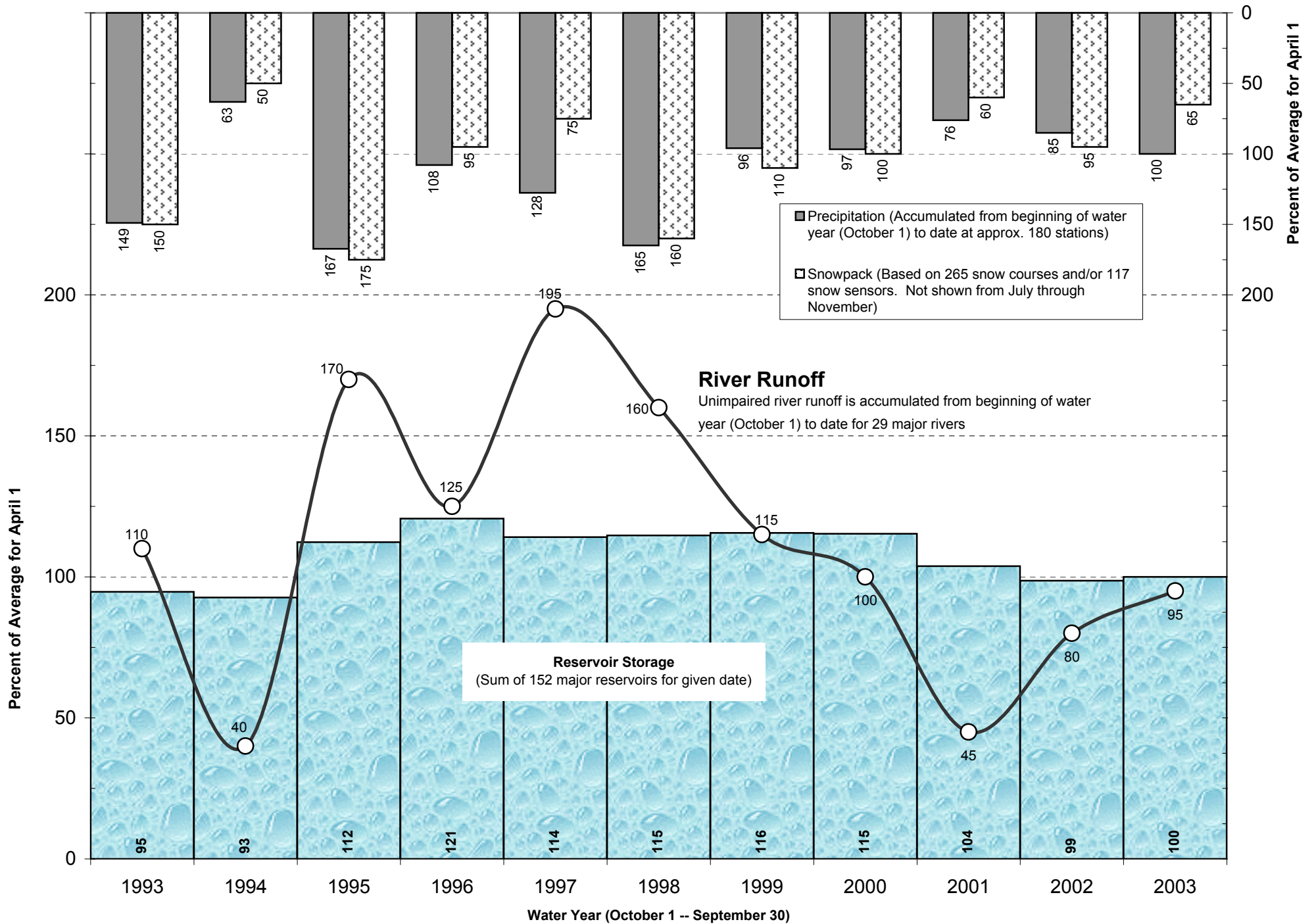
(percent of average)

Hydrologic Region	Precip Oct 1- date	Snow Water Content	Reservoir Storage Mar 31	Oct 1- date	Runoff Apr thru Jul Forecast	Water Year Forecast
North Coast	115	95	105	110	95	100
San Francisco Bay	110	---	90	105	---	---
Central Coast	95	---	95	80	---	---
South Coast	100	---	80	45	---	---
Sacramento River	100	65	105	95	70	85
San Joaquin River	80	60	100	60	60	60
Tulare Lake	95	60	85	85	60	65
North Lahontan	90	70	45	75	65	65
South Lahontan	120	85	95	70	80	75
Colorado River	80	---	---	---	---	---
Statewide	100	65	100	95	65	80
Last Year, Statewide:						
April 1, 2002	85	95	100	80	80	80

*From Bulletin 120-3-03, Water Conditions in California.

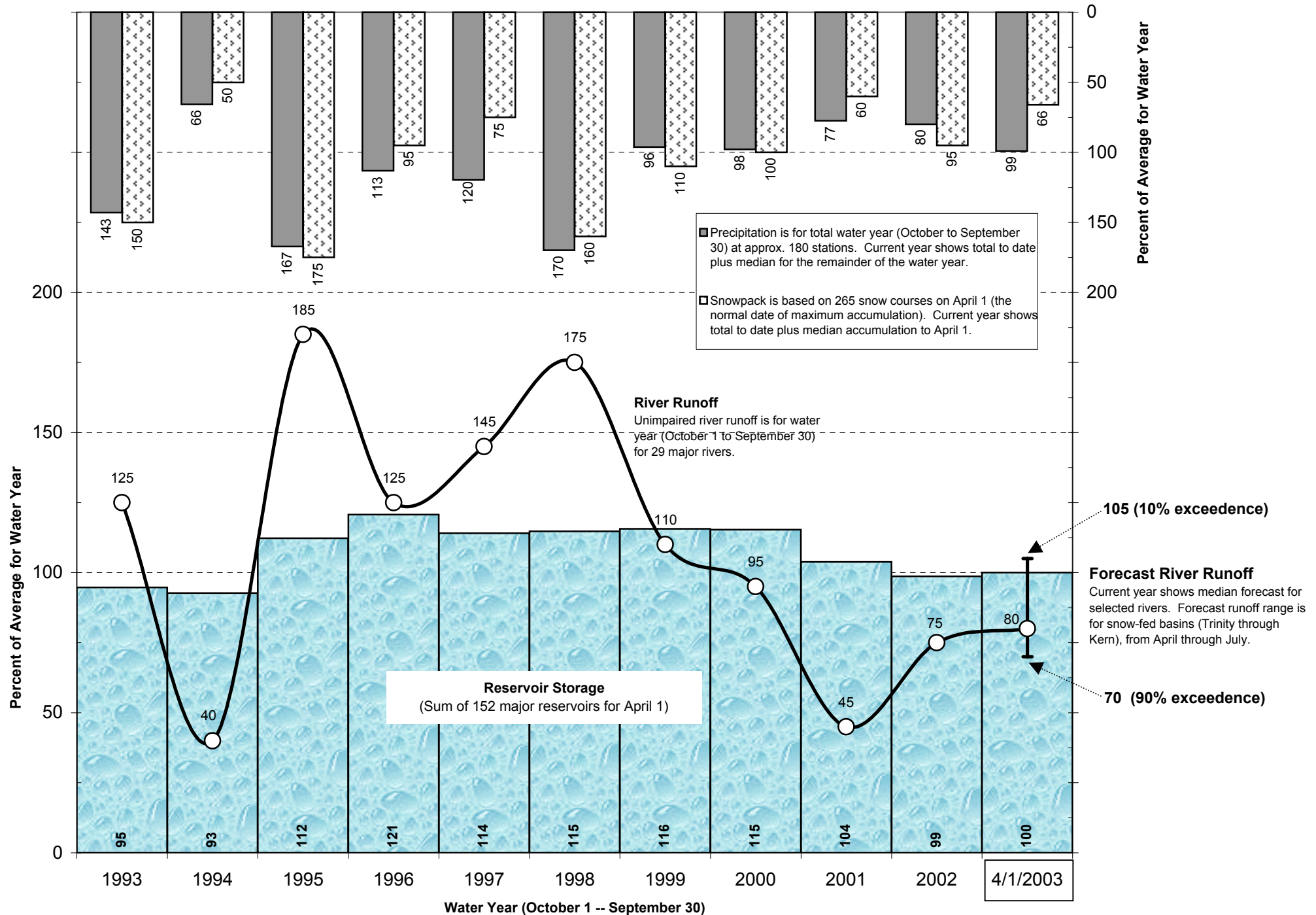


California Statewide Hydrologic Conditions as of April 1



California Statewide Water Year Hydrologic Totals

Current water year shows conditions as of April 1 with median future precipitation, snowpack, and runoff



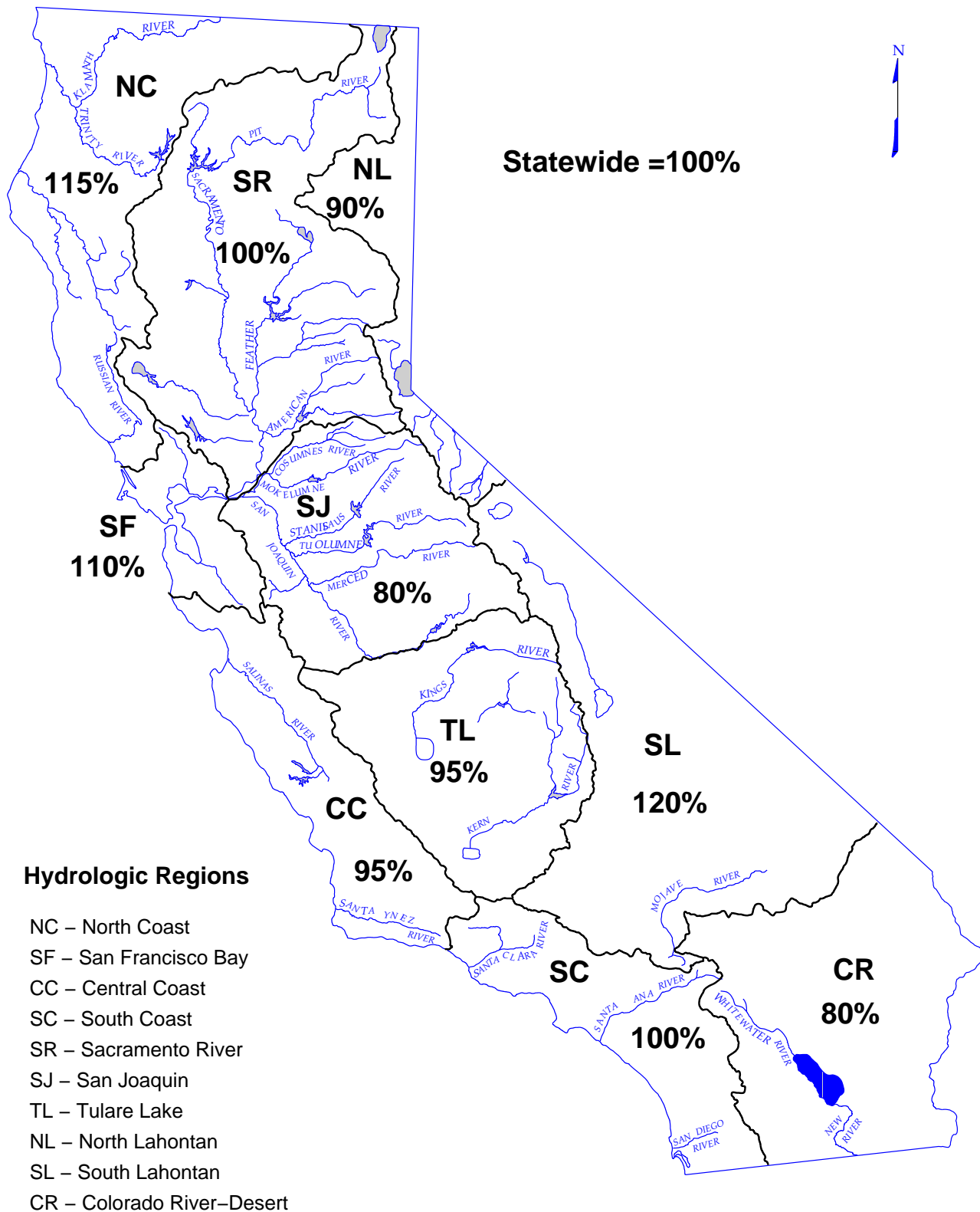
DEPARTMENT OF WATER RESOURCES

CALIFORNIA COOPERATIVE SNOW SURVEYS

SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE

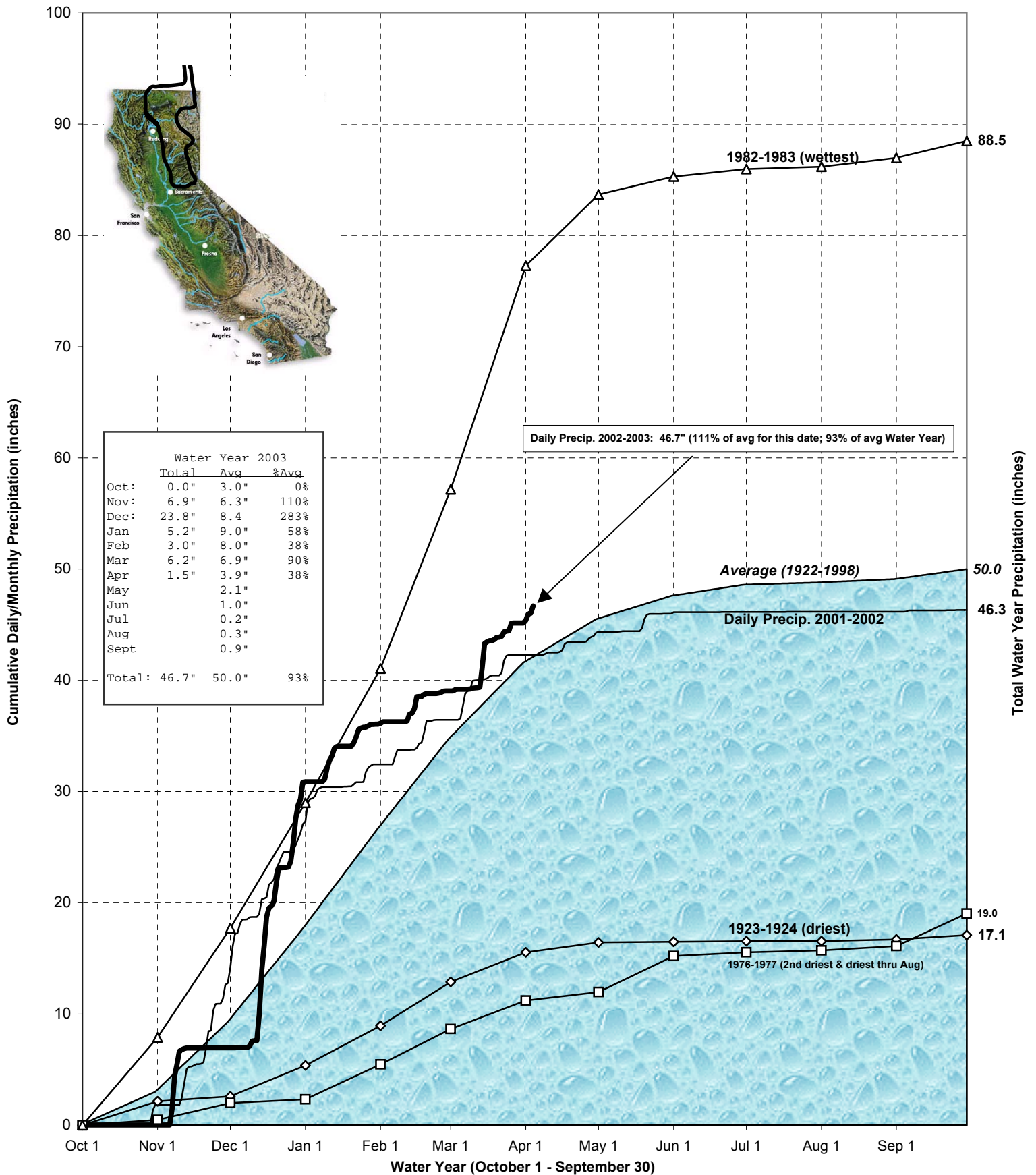
October 1, 2002 through March 31, 2003



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

Northern Sierra Precipitation: 8-Station Index*

April 4, 2003

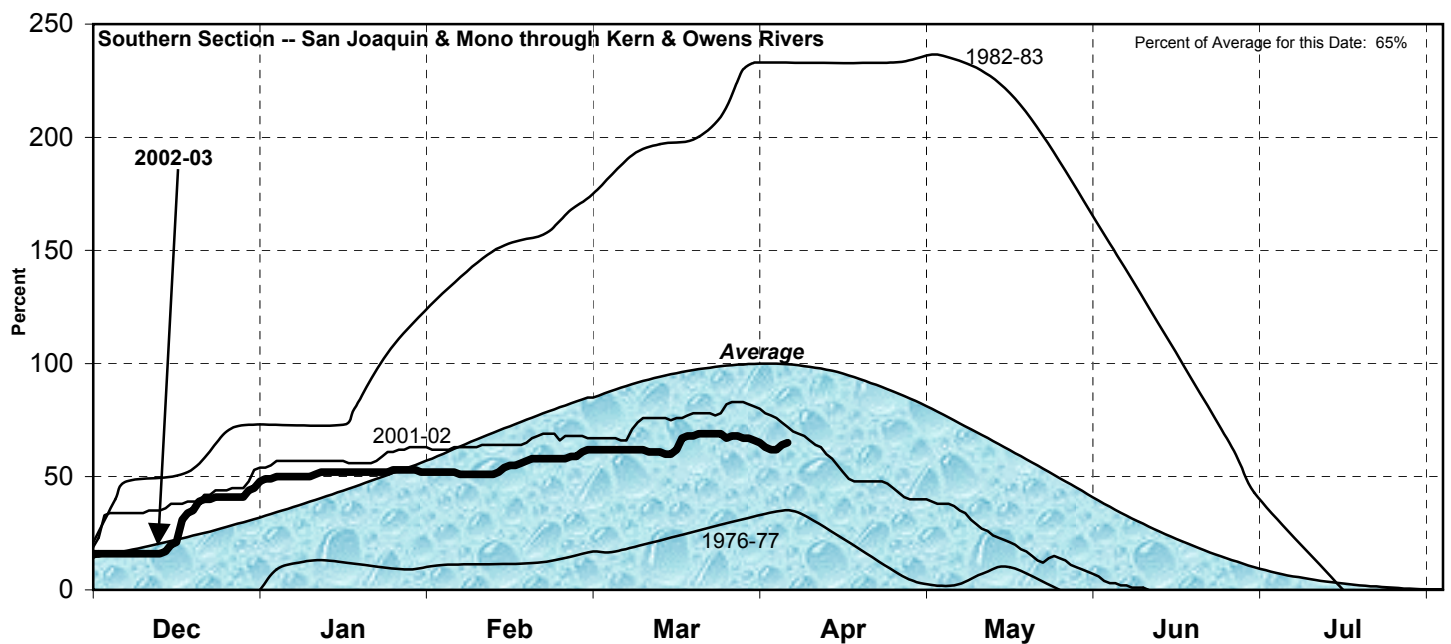
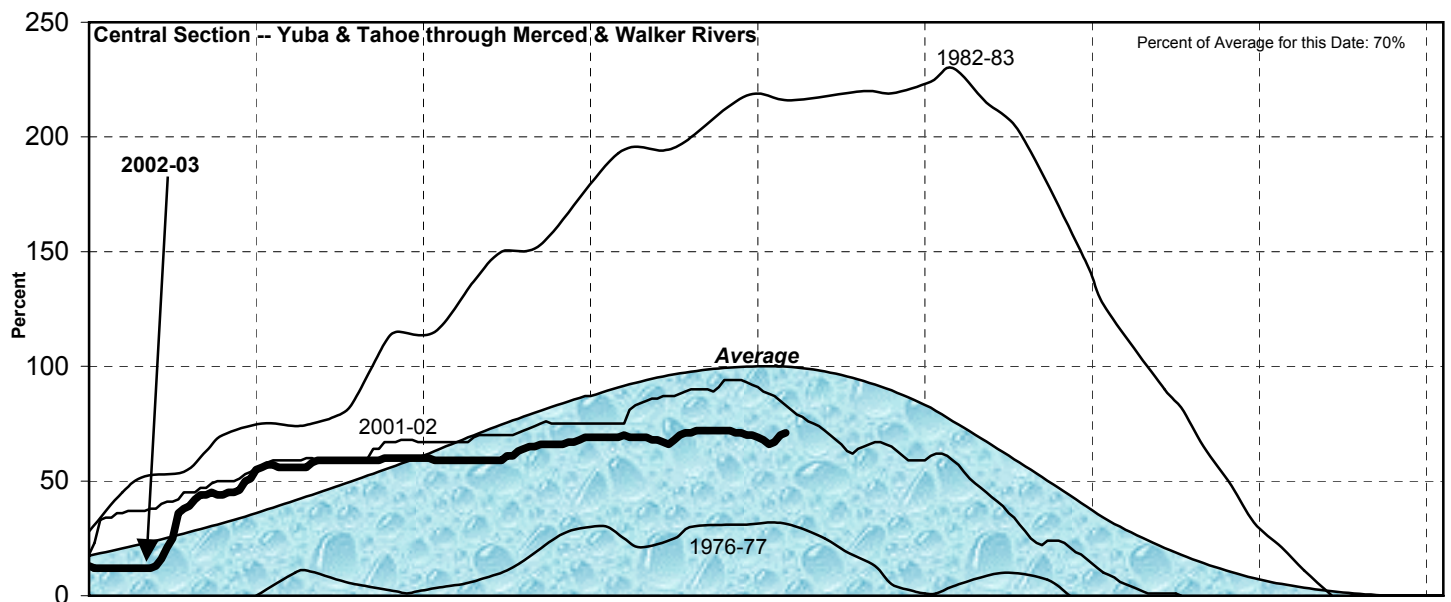
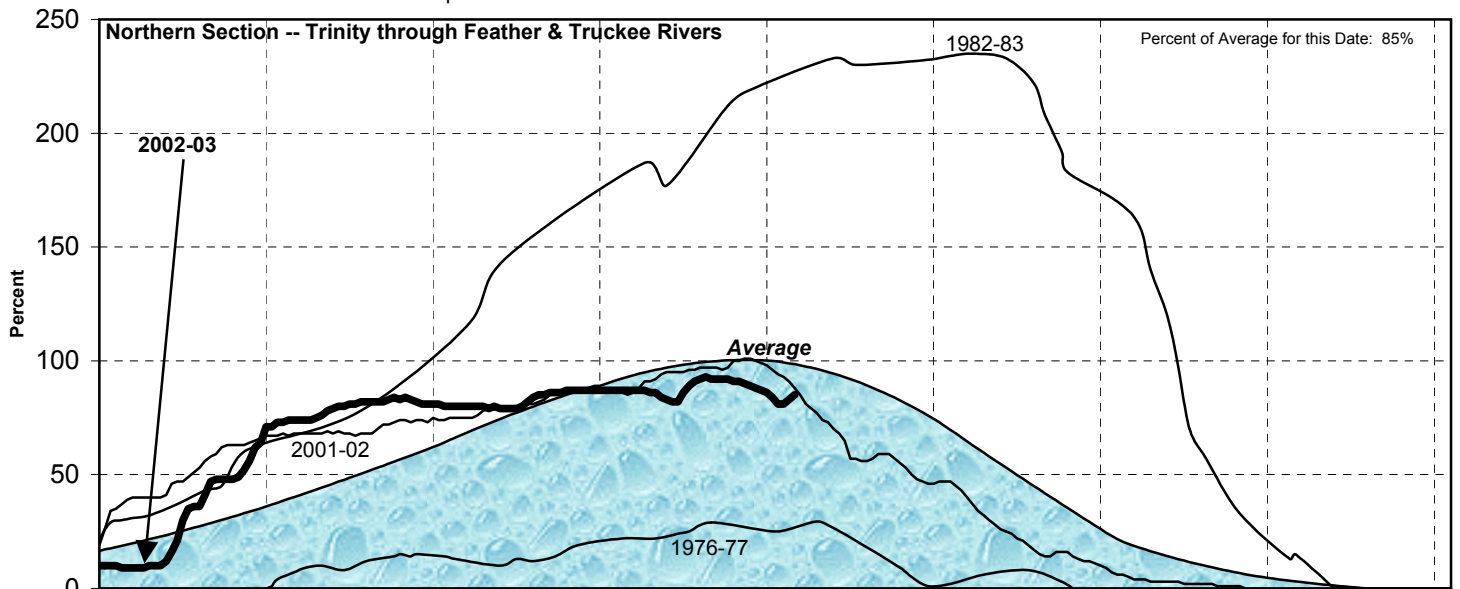


*The average of eight precipitation stations serves as a generalized wetness index for the Sacramento River hydrologic region. It provides a representative sample of the region's major watersheds: the upper Sacramento, Feather, Yuba, and American rivers, which produce inflow to some of California's largest reservoirs--the source of much of our water supply. The eight stations are: Blue Canyon, Brush Creek RS, Mineral, Mount Shasta City, Pacific House, Quincy RS, Shasta Dam, Sierraville RS. Official seasonal runoff forecasts are based on many more measurements than this index, including snowpack and prior streamflow. These seasonal forecasts are a much more accurate measure of water supply.

California Snow Water Content, April 4, 2003

Percent of April 1 Average*

*April 1 is the normal date of maximum accumulation for the season.

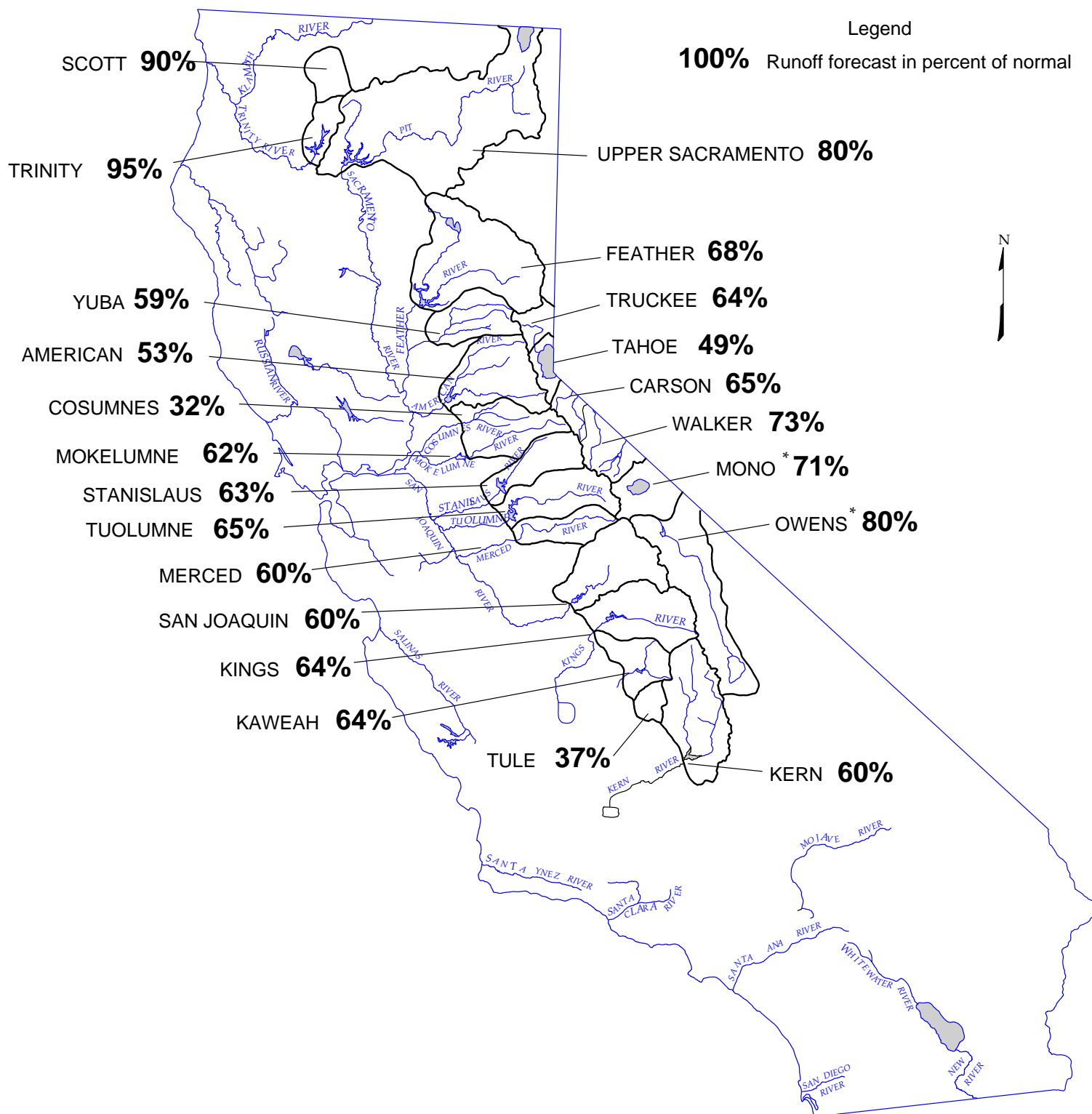


Note: Water Year 1976-77 was the record minimum and Water Year 1982-83 was the record maximum.

DEPARTMENT OF WATER RESOURCES CALIFORNIA COOPERATIVE SNOW SURVEYS

FORECAST OF APRIL – JULY UNIMPAIRED SNOWMELT RUNOFF

April 1, 2003



Regional Reservoir Water Storage Summary

Sum of storage at major California reservoirs in (1,000 Acre-Feet)

As of March 31, 2003

Region	Number of Res.	Total Capacity	Historic Average	End-of-month March storage in calendar year:							
				1977	1983	1998	1999	2000	2001	2002	2003
North Coast	7	3,148	2,439	1,190	2,478	2,742	2,604	2,593	2,374	2,336	2,548
SF Bay	14	546	398	203	511	490	462	482	393	358	367
Central Coast	6	970	693	435	928	872	860	894	890	734	669
South Coast	29	1,989	1,536	920	1,919	1,719	1,566	1,492	1,412	1,278	1,233
Sacramento R	43	16,001	12,323	6,233	13,208	12,740	13,185	13,129	11,537	12,437	13,019
San Joaquin R	34	11,439	7,380	2,917	9,045	8,497	8,774	8,913	8,387	7,687	7,515
Tulare Lake	6	2,044	903	467	1,462	1,320	1,171	1,024	827	721	778
North Lahontan	5	1,072	596	220	826	923	879	905	632	362	271
South Lahontan	8	402	264	167	292	271	286	281	290	280	256
State Total	152	37,614	26,537	12,756	30,673	29,579	29,790	29,717	26,747	26,197	26,659
Percent of Average				48%	115%	111%	112%	111%	100%	98%	100%

Comments:

The 1983 through 2001 storage amounts include New Melones and Warm Springs Reservoirs which began operation after 1977, the new Spicer Meadows Reservoir on the Stanislaus River which began operation in 1989, and Los Vaqueros Reservoir which began operation in 1998.

The 1983 column shows storage in the wettest runoff year this century (1977 was the driest)

Water Storage in Selected California Reservoirs (1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month March storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
NORTH COAST:			NC							
<u>Klamath River (Interstate)</u>										
Upper Klamath Lake	873.3	437.6	472.0	443.4	472.0	395.6	421.0	449.6	444.2	476.7
<u>Shasta River</u>										
L. Shastina (Dwinnell)	50.0	36.9	14.6	50.0	50.2	46.1	40.3	22.9	20.8	42.0
<u>Humboldt MWD</u>										
Ruth Lake	51.8	50.1	25.0	57.3	49.5	49.4	47.6	47.7	47.8	49.2
<u>Russian River</u>										
Lake Sonoma	381.0	227.3	0.0	0.0	246.3	245.1	244.6	244.7	245.8	244.5
SAN FRANCISCO BAY:			SFB							
<u>Marin MWD</u>										
Soulajule Reservoir	10.6	9.9	0.0	10.6	10.6	10.6	10.4	10.1	10.6	10.6
Nicasio Reservoir	22.4	20.5	0.6	22.4	22.4	22.4	22.4	22.4	22.4	22.4
Kent Lake	32.9	25.9	0.8	32.9	32.9	32.9	32.8	25.1	32.9	32.9
Alpine Lake	8.9	8.7	6.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9
SUM	74.8	65.0	8.2	74.8	74.8	74.8	74.5	66.5	74.8	74.8
<u>East Bay MUD</u>										
Pardee Reservoir (1)	198.0	180.8	47.7	200.8	199.1	175.0	186.6	181.1	181.5	178.6
Camanche Res. (1)	417.1	251.9	146.3	305.2	239.2	280.8	280.8	268.3	271.7	303.8
SUM	615.1	432.8	194.0	506.0	438.3	455.8	467.4	449.5	453.2	482.4
<u>San Francisco Cy & Co</u>										
San Andreas Lake	19.0	16.3	17.8	19.0	13.4	16.8	16.5	16.8	18.1	12.9
Crystal Springs Res.	58.4	50.4	44.0	60.3	55.7	50.1	52.5	47.6	49.0	56.4
San Antonio Reservoir	50.5	37.8	21.5	48.4	45.9	49.4	47.5	42.4	49.1	48.7
Calaveras Reservoir	96.9	75.5	30.0	96.9	97.9	92.4	95.9	75.0	32.9	34.2
Hetch Hetchy Res. (1)	360.4	130.3	24.9	235.9	136.3	204.4	172.6	189.5	113.9	240.6
Lake Eleanor (1)	26.1	11.7	1.7	20.4	16.1	15.5	25.0	9.5	7.1	7.7
Cherry Lake (1)	268.0	122.3	70.9	168.5	137.9	202.7	207.8	131.3	192.0	187.7
SUM	879.3	444.4	210.8	649.3	503.3	631.4	617.9	512.1	462.2	588.4
CENTRAL COAST:			CC							
<u>Salinas River</u>										
Santa Margarita Lake	23.0	20.9	11.7	23.5	24.4	20.4	23.8	23.9	17.1	15.0
Lake Nacimiento	377.9	218.2	44.9	310.9	321.7	308.0	318.1	310.0	225.1	240.2
Lake San Antonio	330.0	238.2	207.5	339.6	287.2	300.6	315.7	315.9	288.9	250.0
SUM	730.9	477.3	264.1	674.0	633.3	629.0	657.6	649.8	531.1	505.1
<u>Santa Ynez River</u>										
Gibraltar Reservoir	8.2	7.9	5.0	8.5	7.7	7.2	7.1	7.2	2.6	6.0
Lake Cachuma	190.5	173.4	134.8	205.3	190.8	183.7	189.0	192.9	164.0	125.2
SUM	198.7	181.3	139.8	213.8	198.5	190.9	196.1	200.1	166.6	131.2

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month March storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
SOUTH COAST:										
<u>Ventura River</u>			SC							
Lake Casitas	254.0	228.2	197.2	255.9	256.7	238.0	225.1	241.4	218.4	196.9
<u>Santa Ana River</u>										
Big Bear Lake	73.0	60.3	36.8	71.6	69.4	66.8	61.6	55.1	45.8	40.2
<u>SWP, South</u>										
Pyramid Lake	171.2	163.5	166.4	158.8	163.5	167.3	164.5	168.0	167.2	160.4
Castaic Lake	323.7	285.2	108.5	319.9	319.8	268.7	299.0	293.2	264.4	279.4
Silverwood Lake (2)	73.0	65.9	55.1	74.9	64.3	70.3	70.6	71.8	72.0	69.4
Lake Perris	131.5	118.1	83.1	126.5	110.8	123.8	118.5	105.7	121.6	123.4
SUM	699.4	632.8	413.1	680.0	658.5	630.1	652.6	638.7	625.2	632.6
SACRAMENTO RIVER:										
<u>CVP, North</u>			SB							
Trinity Lake (3)	2447.7	1960.8	1062.1	2201.7	2230.5	2096.0	2093.2	1882.5	1857.1	2036.2
Lake Shasta	4552.0	3704.8	1460.7	3725.1	3553.0	3863.0	3751.9	3955.8	4136.2	4103.7
Whiskeytown Lake	241.1	213.2	227.2	245.5	206.7	210.3	213.6	205.0	203.9	206.9
Folsom Lake	977.0	621.7	285.3	651.6	680.3	615.4	674.3	602.2	720.6	619.7
SUM	8217.8	6500.5	3035.3	6823.9	6670.5	6784.7	6732.9	6645.5	6917.8	6966.5
<u>Orland Project</u>										
East Park Reservoir	50.9	47.9	9.4	49.1	48.7	48.8	48.5	48.5	48.4	48.5
Stony Gorge Reservoir	50.0	48.0	11.1	46.3	46.7	47.8	49.6	49.8	47.7	48.1
SUM	100.9	95.9	20.5	95.4	95.4	96.6	98.1	98.3	96.1	96.6
<u>Cache Creek</u>										
Indian Valley Res.	301.0	205.9	0.4	269.6	264.2	268.1	266.2	248.5	174.8	178.2
Clear Lake	313.0	278.9	0.0	447.1	322.6	311.2	312.9	212.0	283.8	315.1
SUM	614.0	484.8	0.4	716.7	586.8	579.3	579.1	460.5	458.6	493.3
<u>Solano Project</u>										
Lake Berryessa	1600.0	1407.0	982.2	1647.1	1613.1	1617.2	1598.4	1489.0	1506.8	1604.4
<u>Feather River</u>										
Lake Almanor	1143.0	826.5	631.1	954.7	850.7	952.7	972.7	729.1	773.7	842.0
Lake Oroville	3537.6	2789.8	1564.5	2834.6	2812.4	2941.1	2838.6	2048.3	2414.8	2634.5
SUM	4680.6	3616.3	2195.6	3789.3	3663.1	3893.8	3811.4	2777.4	3188.5	3476.5
<u>Yuba County WA</u>										
Bullards Bar Reservoir	966.1	686.7	296.4	794.7	788.3	762.3	786.1	702.0	755.6	780.7
<u>PG and E</u>										
Lake Spaulding Systerr	144.6	59.4	25.0	31.3	58.9	30.0	55.6	46.1	40.3	53.4
<u>Nevada ID</u>										
Jackson Meadows Res	69.2	37.3	4.1	28.9	41.0	42.3	36.2	30.3	30.3	55.0
French Lake	13.8	9.5	0.0	13.8	7.0	8.9	10.6	8.6	8.2	11.3
Bowman Lake	68.5	35.6	23.8	39.2	35.1	29.3	43.4	33.8	31.1	40.6
Scotts Flat Reservoir	48.5	46.5	19.7	48.9	48.5	48.5	48.5	42.9	48.4	48.4
Rollins Reservoir	66.0	61.9	13.6	67.2	66.0	66.8	66.6	65.6	66.0	66.0
SUM	266.0	190.9	61.2	198.1	197.6	195.8	205.3	181.1	184.0	221.4

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month March storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
SACRAMENTO RIVER, continued:										
<u>South Sutter WD</u>										
Camp Far West Res.	104.0	101.0	11.9	108.1	106.1	105.5	105.3	84.8	104.8	103.3
<u>Placer CO WA</u>										
French Meadows Res	136.4	73.6	42.2	56.3	77.6	92.1	82.6	61.4	54.8	83.5
Hell Hole Reservoir	207.6	119.9	79.8	119.7	104.0	100.0	128.8	70.0	75.4	147.9
SUM	344.0	193.6	122.1	176.1	181.6	192.1	211.4	131.4	130.2	231.4
<u>Sacramento MUD</u>										
Loon Lake	76.5	28.6	7.3	9.8	25.6	14.0	20.2	24.9	25.3	27.9
Union Valley Reservoir	277.3	162.0	28.9	220.3	192.3	188.1	187.8	65.3	177.5	188.3
Ice House Reservoir	46.0	22.6	5.9	23.3	17.6	15.6	23.0	19.2	22.1	24.0
Slab Creek Reservoir	16.6	14.7	15.8	15.6	12.0	11.1	14.8	15.8	14.4	14.7
SUM	416.4	228.0	57.9	269.1	247.5	228.9	245.8	125.2	239.3	254.9
SAN JOAQUIN RIVER:										
<u>Contra Costa WD</u>										
Los Vaqueros Res.	104.8	85.0	--	--	12.0	102.6	92.5	77.2	78.4	85.4
<u>Sly Park</u>										
Jenkinson Lake	41.0	37.1	8.5	41.6	41.3	41.1	41.1	36.0	39.5	34.7
<u>Calaveras River</u>										
New Hogan Reservoir	317.1	168.3	56.9	192.8	214.3	203.1	199.0	184.0	181.7	145.0
<u>Tri-Dam</u>										
Donnell Reservoir	64.3	16.9	15.2	6.4	11.7	14.3	14.4	14.2	6.8	9.1
Beardsley Lake	97.8	50.0	5.4	78.4	53.6	52.0	40.2	22.6	22.5	27.9
Tulloch Reservoir	67.0	58.4	27.6	60.0	58.1	54.9	56.4	56.4	56.2	57.1
SUM	229.1	125.3	48.2	144.8	123.4	121.2	111.0	93.2	85.6	94.1
<u>CVP, Stanislaus R</u>										
New Melones Res. (4)	2420.0	1451.6	6.6	2070.5	1999.1	1997.5	2012.0	1921.0	1621.5	1425.2
<u>Tuolumne River</u>										
New Don Pedro Res.	2030.0	1449.5	581.8	1885.2	1667.9	1644.6	1704.0	1679.0	1527.7	1432.1
<u>Merced River</u>										
Lake McClure	1024.6	582.7	207.8	808.9	686.4	695.4	711.9	661.5	460.7	388.2
<u>Up. San Joaquin R</u>										
Florence Lake	64.6	1.4	0.3	1.0	1.0	1.2	1.3	1.5	1.2	1.4
Lake Thomas A. Edisor	125.0	31.9	6.5	75.6	6.5	49.8	43.4	40.9	42.2	48.3
Mammoth Pool Res.	122.7	27.1	27.2	64.8	19.1	12.3	14.8	32.4	14.1	37.2
Huntington Lake	89.8	37.9	45.5	45.2	32.3	34.7	41.1	46.7	42.2	40.3
Shaver Lake	135.4	43.5	28.9	84.6	52.9	93.7	86.8	98.0	85.1	87.6
Bass Lake	45.4	30.8	20.9	34.3	30.4	31.3	30.1	31.2	32.1	32.4
Redinger Lake	35.0	24.4	23.6	25.2	25.1	24.0	22.9	24.6	24.1	23.9
SUM	617.9	197.0	152.9	330.8	167.4	247.0	240.4	275.3	240.9	271.2
<u>Friant</u>										
Millerton Lake	520.0	348.4	226.4	395.0	425.6	458.7	462.0	375.8	388.8	464.7
<u>DWR & USBR</u>										
San Luis Res. (CVP)	971.0	869.5	545.3	799.8	964.8	966.0	964.6	981.2	949.8	969.3
San Luis Res. (SWP)	1062.0	983.6	658.3	1069.6	1063.3	1061.8	1061.9	996.8	1078.2	984.6
SUM	2033.0	1853.1	1203.6	1869.5	2028.1	2027.8	2026.4	1978.0	2028.0	1953.9

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month March storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
TULARE LAKE:										
<u>Kings River</u>										
Courtright Reservoir	123.2	43.4	35.2	82.6	35.3	52.5	45.5	26.2	38.4	36.4
Wishon Reservoir	128.3	34.6	44.2	17.5	36.1	76.7	49.5	63.6	36.9	37.7
Pine Flat Reservoir	1000.0	568.7	292.0	764.9	789.7	732.0	644.8	517.1	459.2	441.3
SUM	1251.5	646.7	371.3	865.0	861.0	861.2	739.7	606.9	534.5	515.4
<u>Kaweah River</u>										
Lake Kaweah	143.0	36.8	20.7	70.4	66.0	30.9	42.9	50.0	44.5	51.7
<u>Tule River</u>										
Lake Success	82.3	34.4	12.5	59.3	57.8	27.5	48.3	30.4	31.5	37.0
<u>Kern River</u>										
Lake Isabella	568.0	186.0	63.1	467.5	335.9	252.0	193.3	139.7	111.3	174.0
NORTH LAHONTAN:										
<u>Truckee River</u>										
Lake Tahoe	732.0	392.8	138.0	562.0	643.7	592.1	627.8	397.7	166.4	95.9
Prosser Creek Res.	29.8	9.5	0.1	9.5	9.5	9.9	9.8	9.8	10.0	11.5
Stampede Reservoir	226.5	141.5	37.9	202.9	203.0	204.7	204.1	188.7	151.9	125.2
Boca Reservoir	41.1	21.7	30.3	27.7	32.7	32.6	31.5	11.2	16.9	19.3
SUM	1029.4	565.6	206.3	802.2	888.9	839.2	873.2	607.4	345.2	251.8
<u>East Walker River</u>										
Bridgeport Reservoir	42.6	31.4	14.4	24.1	34.9	40.3	32.5	25.4	17.1	19.4
SOUTH LAHONTAN:										
<u>Los Angeles DWP</u>										
Grant Lake	47.6	27.7	7.0	37.5	39.9	39.1	36.7	38.0	31.7	18.6
Lake Crowley	183.2	127.7	55.2	122.5	130.1	135.2	132.2	142.3	138.3	130.5
Tinemaha Reservoir	16.3	2.5	4.9	11.8	2.1	2.0	2.3	1.4	4.2	2.0
Haiwee Reservoir	41.2	32.4	36.5	39.2	28.2	29.7	31.0	27.3	27.2	28.7
SUM	288.3	190.3	103.6	210.9	200.3	206.0	202.2	209.0	201.4	179.8
COLORADO RIVER:										
<u>Colorado River</u>										
Lake Powell	25002.0	19063.6	17942.0	22640.0	20273.0	20916.4	20818.7	18864.7	16927.4	13600.0
Lake Mead	26159.0	20491.9	21430.0	24638.0	25046.0	24662.0	24659.0	22154.0	19118.0	16820.0
Lake Mohave	1810.0	1678.9	1707.0	1713.8	1656.0	1677.5	1658.0	1710.6	1708.8	1685.9
Lake Havasu	619.4	556.1	567.6	567.5	542.0	541.0	535.0	584.9	590.4	540.8
SUM	53590.4	41790.4	41646.6	49559.3	47517.0	47796.9	47670.7	43314.2	38344.6	32646.7

Footnotes:

- 1) Located in Sierra Nevada (San Joaquin Basin drainage)
- 2) Located in South Lahontan Basin drainage
- 3) Located in North Coast drainage
- 4) 1977 value is for old Melones Reservoir

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